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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/043,438	01/10/2002	Keijo Laiho	032986-020	1334
27045	7590	08/08/2005	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			DOAN, KIET M	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 08/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/043,438	LAIHO ET AL.	
	Examiner	Art Unit	
	Kiet Doan	2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 June 2005.
 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-33,38-43,47 and 48 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 25-33,38-43,47 and 48 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 10 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This office action is response to amendment file on 06/15/2005

Claims 25, 27, 31, 38-42 and 47-48 are amended.

Response to Arguments

Applicant's arguments with respect to claim 25 have been considered but are moot in view of the new ground(s) of rejection. This action is FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claim 25-33, 38-43 and 47-48** are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephens (EP 1 215 928) in view of Ahmavaara et al. (Patent No. 6,792,278).

Consider **claim 25**, Stephens teaches a method of initiating a connection to a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]). Stephens teaches the limitation of claim as discuss **but fail to teach** comprising the step of sending a paging message to

the mobile telecommunication device from a core network the paging message specifying a preferred mobile telecommunication access network for the connection.

In an analogous art, Ahmavaara teaches "Method for establishing a signaling connection with a mobile station". Further, Ahmavaara teaches comprising the step of sending a paging message to the mobile telecommunication device from a core network the paging message specifying a preferred mobile telecommunication access network for the connection (Abstract, C3, L41-67, C4, L1-9, Fig.1, Illustrate core network which sending a paging message to the mobile telecommunication device).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and sending a paging message to the mobile telecommunication device from a core network, to provide means for variety option/use in different telecommunication network.

Consider **claim 26**, Ahmavaara teaches the method additionally comprising the step of returning a paging response signal from the mobile telecommunication device to the core network over the preferred mobile access network, and subsequently setting up the connection over the preferred mobile telecommunication access network (C5, L5-39 teach call return/paging to core network and set up new connection).

Consider **claim 27**, Ahmavaara teaches the method additionally comprising the

step of returning a paging response signal from the mobile telecommunication device to the core network over a mobile telecommunication access network to which the device is currently monitoring, and subsequently setting up the connection over the preferred mobile telecommunication access network (C4, L5-18, Fig.2, Illustrate response which means as step of returning a paging response signal).

Consider **claim 28**, Ahmavaara teaches the method wherein the step of sending a paging signal to the mobile telecommunication device comprises the step of transmitting a paging signal specifying the preferred mobile telecommunication access network for the connection over each of a plurality of networks to which the device may monitor (C3, L52-67, Fig.2, Illustrate call/paging which sending a paging signal to the mobile telecommunication device).

Consider **claim 29**, Ahmavaara teaches the method wherein the connection is one of a facsimile connection, data connection, or multi-media connection (C5, L40-67, C6, L1-24, teach data connection)

Consider **claim 30**, Stephens teaches the method according wherein the preferred mobile telecommunication access network for the connection is one of a GSM access network and a UMTS access network (Page 5, Paragraph [0038], Fig.1, Illustrate mobile telecommunication access network for the connection is one of a GSM No.32 and a UMTS No.34).

Consider **claim 31**, Stephens teaches a paging control system for a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]).

Ahmavaara teaches the system comprising: input means for receiving a connection setup message corresponding to an new connection for the multi-mode mobile telecommunication device (C3, L35-40 teach terminal connection set up via transceiver base station); and means for determining from the connection setup message whether there is a preferred mobile telecommunication access network for the connection (C5, L5-21 teach set up connection).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and input for receiving a connection setup, to provide means for quick/fast connection when users changing frequency/mode.

Consider **claims 32 and 47**, Ahmavaara teaches the paging control system and additionally comprising transmission means for causing the transmission of a paging message corresponding to the connection setup message over respective paging

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channels of two or more mobile telecommunication access networks serving the multi-mode mobile telecommunication device, the paging message containing an indication of the preferred mobile telecommunication access network for the connection (C1, L32-48, C3, L35-56 teach plurality of base transceiver station which means as transmission of a paging).

Consider **claim 33**, Ahmavaara teaches the paging control system to claim 31, wherein the system is located in a Mobile Switching Centre of a core network serving a plurality of access networks (C3, L54-58, Fig.1, Illustrate MSC and plurality of access networks).

Consider **claim 38**, Stephens teaches a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]).

Ahmavaara teaches comprising: means for receiving a paging message initiating a connection, the paging message containing an indication of a preferred mobile telecommunication access network for the connection; means for determining the preferred mobile telecommunication access network from the paging message (C3, L52-61, teach paging message which send/call); and means for transmitting a paging response signal over the preferred mobile telecommunication access network (C3, L35-

40, Fig.2, teach base transceiver station which receiving and transmitting paging response signal)

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and receiving a paging message initiating a connection, to provide means for quick/fast connection when users changing frequency/mode.

Consider **claim 39**, Stephens teaches a method of setting up a connection to a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]).

Ahmavaara teaches the method comprising the steps of: sending a paging request from a core network to the device via at least one telecommunication access network; receiving at the core network a paging response from the device via a telecommunication access network to whose paging channel(s) the device is currently monitoring (Abstract, C3, L5, L5-38); determining whether the monitored telecommunication access network can support the connection; and if it is determined that the access network to which the device is listening cannot support the connection, establishing a communication channel to the mobile telecommunication device over a

second mobile telecommunication access network that can support the connection (C5, L40-67, C6, L1-17).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and input for receiving a connection setup, to provide means for quick/fast connection when users changing frequency/mode.

Consider **claim 40**, Stephens teaches a method of completing an incoming or outgoing call to a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]).

Ahmavaara teaches when a pre-existing call is connected to the mobile telecommunication device, the method comprising the step of: determining whether the mobile telecommunication access network over which the pre-existing call is established can support the new call (C5, L44-67, C6, L1-17).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and pre-existing

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call is connected to the mobile telecommunication device, to provide means for verify and secure connection.

Consider **claim 41**, Ahmavaara teaches the method as claimed in claim 40, additionally comprising the step of: if it is determined that the mobile telecommunication access network over which the pre-existing connection is established cannot support the new connection, transferring the pre-existing connection to a second mobile telecommunication access network that can support the new connection, and establishing the new connection over the second mobile telecommunication network (C4, L20-40).

Consider **claim 42**, Stephens teaches a method of handling a connection to a multi-mode mobile telecommunication device (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]).

Ahmavaara teaches the method comprising the steps of: setting up the connection over a first mobile telecommunication access network that can support the connection (C3, L35-67, Fig.1, Illustrate connection and network) ; determining whether a second mobile telecommunication access network can support the connection; and if it is determined that the second mobile telecommunication access network cannot

support the connection, inhibiting handover of the connection to the second mobile telecommunication access network (C4, L53-67).

Consider **claim 43**, Ahmavaara teaches the method wherein said step of inhibiting a potential handover of the connection to the second mobile telecommunication access network is initiated by a MSC/SGSN, which sends a blocking signal to the RNC/BSC of the current access network (C3, L27-40).

Consider **claim 48**, Stephens teaches a method of establishing a connection to a device via a specific one of a plurality of domains defined in a mobile telecommunication system (Page 4, Paragraph [0031]), wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Page 5, Paragraphs [0038-0039], Page 6, Paragraph [0040]):

Ahmavaara teaches comprising: the step of sending paging messages via one or both of the other domains, the paging messages identifying the preferred domain (C3, L26-51, Fig.1, Illustrate plurality of base station which read on plurality of domains).

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

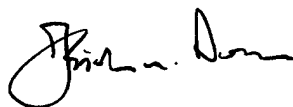
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 703-305-4749.

The examiner can normally be reached on 8am - 5pm.

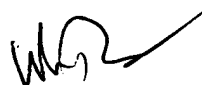
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kiet Doan
Patent Examiner



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